

From: glowbugs@sco.theporch.com Wed Mar 26 18:40:38 1997  
Return-Path: <glowbugs@sco.theporch.com>  
Received: from sco.theporch.com (sco.theporch.com [207.234.31.38])  
by uro.theporch.com (8.8.5/AUX-3.1.1)  
with ESMTP id SAA11429 for <shimshon@uro.theporch.com>;  
Wed, 26 Mar 1997 18:40:37 -0600 (CST)  
From: glowbugs@sco.theporch.com  
Received: from sco.theporch.com (localhost [127.0.0.1])  
by sco.theporch.com (8.8.5/SCO-5.0.2) with SMTP  
id AAA14012; Thu, 27 Mar 1997 00:36:25 GMT  
Date: Thu, 27 Mar 1997 00:36:25 GMT  
Message-Id: <199703270036.AAA14012@sco.theporch.com>  
Errors-To: ws4s@infoave.net  
Reply-To: glowbugs@sco.theporch.com  
Originator: glowbugs@sco.theporch.com  
Sender: glowbugs@sco.theporch.com  
Precedence: bulk  
To: Multiple recipients of list <glowbugs@sco.theporch.com>  
Subject: GLOWBUGS digest 487  
X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas  
X-Comment: Please send list server requests to listproc@sco.theporch.com  
Status: 0

## GLOWBUGS Digest 487

Topics covered in this issue include:

- 1) CQ glowbug circuits  
by "Bowman, Jim" <Jim\_Bowman@ATK.COM>
- 2) Re: Regens and Superhets  
by Kevin Pease <hamradio@mm1001.theporch.com>
- 3) Re: Regens and Superhets  
by Kevin Pease <hamradio@mm1001.theporch.com>
- 4) Re: CQ glowbug circuits  
by Jeffrey Herman <jeffreyh@hawaii.edu>
- 5) Re: Catalog for your reference  
by TRIODEEL@aol.com
- 6) Synchronous Demodulation  
by Chris Trask <ctrask@primenet.com>
- 7) Re: CQ glowbug circuits  
by "Brian Carling (G3XLQ/AF4K)" <bry@mnsinc.com>
- 8) News of move/survey  
by Conard Murray <ws4s@InfoAve.Net>
- 9) HVAC control Transformers  
by Paul Bocci-CPB007 <Paul\_Bocci-CPB007@email.mot.com>

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Date: Tue, 25 Mar 1997 16:38:00 -0800  
From: "Bowman, Jim" <Jim\_Bowman@ATK.COM>  
To: "'GLOWBUGS LIST'" <glowbugs@sco.theporch.com>  
Subject: CQ glowbug circuits  
Message-ID: <c=US%a=\_%p=ATK%l=ATK/MPLS/000300D3@Exchange\_WA1.ATK.COM>

Greetings to the list. I wonder if anyone has the time and energy to try to get permission from the publishers of CQ to reproduce, for our purposes, some of their older stuff. I have a CQ Mobile Handbook, about 1957, I believe, that has some neat little circuits for little transmitters and converters, etc. In relation to the recent discussions on the list of modulators, esp. screen modulation variations, there are some neat circuits in there, as well.

Back in the 50's I used a rig (75M) described in the book, which worked like a champ. Used 2 tubes on AM, 12AT7 and a 6146 final. One half of the 12AT7 (I used a 6SN7) was the xtal osc and the other half was a "gate modulator" for the 6146. It was called the "Golden Gate Special" or something like that, because it was used by the SF guys. I still have the little rig I built back then, sitting on the shelf. I ran a PE103 dynamotor on it at about 600V and the thing would blow and go! I since got rid of the dynamotor. I could draw about a 3/4 inch arc of rf off my mobile antenna above the "bug catcher" loading coil. I could also take a 4 foot flourescent bulb, hold it in my hand and walk all the way around the car and keep the bulb lit! This neat circuit is about as close as you can get to getting something for nothing! The rub may be finding the carbon mic input transformer they used a lot back then. Could be eliminated with another tube.

Anyway, forgive my reminiscing. The book has lots of little 6AQ5 class "peanut whistle" rigs as we called them, and the like. If we could get permission, I would be happy to share this stuff. Maybe someone could post schematics on their web page or something. My internet activity is here at work, so I just can't do much. Any takers?

Jim W7HPK  
Jim\_Bowman@ATK.COM

-----  
Date: Tue, 25 Mar 1997 19:19:01 -0600 (CST)  
From: Kevin Pease <hamradio@mm1001.theporch.com>  
To: rdkeys@csemail.cropsci.ncsu.edu  
Subject: Re: Regens and Superhets  
Message-ID: <Pine.LNX.3.95.970325190832.6512B-100000@mm1001.theporch.com>

On Tue, 25 Mar 1997 rdkeys@csemail.cropsci.ncsu.edu wrote:

> Simple supers with regenerative IF's and second detectors have been  
> around for a long time. They work well, and get around some of the  
> problems associated with a normal regen, but they are not necessarily  
> any better, as I will hope to describe, below. But, they will never  
> be a good signal receiver, unless you have some mean tuned circuits  
> in a VERY LOW IF strip. Else, you need filters, and that defeats the  
> idea of the regenerative IF.

>  
The Idea is to use the regeneration to narrow up the selectivity and use  
an external bfo for heterodyne. Regenerative receivers are not very  
selective when oscillating. My thought is that the regeneration will be  
like a Q-Multiplier for higher selectivity.

>  
> Basically good, but you will probably have to wind your own IF cans  
> these days, unless anyone has an spares around for that QRG. See the  
> 1925-1932 QST's for how to wind good IF transformers yourself.

>  
I have some JW-Miller 1650 KHZ IF Cans that I am hoping I can tune to 1700  
KHZ.

>  
> > 3. A 6U8 as a regenerative detector with the triode section the BFO for  
> > CW/SSB. Use capacitors for feedback or maybe a tickler hand wound varying  
> > the screen voltage for regeneration control. I am wondering how the  
> > selectivity will be at 85 KHZ. Should I get good single signal CW  
> > selectivity. The BFO will be injected into the grid with a small tickler  
> > or maybe stray tube capacitance. I have also thought about using old TV  
> > stabilizer coils as IF Coils at 100KHZ or maybe padding the Command coils  
> > down to 50 KHZ as an alternative to 85 KHZ.

>  
> Dunno why you want an external heterodyne, although at low IF's it can  
> be advantageous if you are trying to passband the IF and make it variable  
> in passband tuning.

Basically I want to set the BFO 700 HZ away from the Regenerative  
detector peak for single signal type selectivity.

>  
> > I am torn between an IF stage for gain/selectivity and the regenerative  
> > detector for gain/selectivity. I could easily add a 6ba6 for the IF and  
> > have AVC and all those neat things but this would deviate from simple. I  
> > have already compromised by going to dual conversion since I know that  
> > more selectivity is available at the low freq IF's than at 1700 KHZ.  
>  
> Put your selectivity in both places. Use the IF to tighten up the selectivity  
> to 1khz or so and the detector selectivity to cut it down to 200hz or so.  
>  
I am trying to keep things simple but I could also have the detector  
regenerative. I have an interest in playing around with regeneration  
again.

>

Kevin Pease  
WB0JZG  
Mount Juliet, TN.

-----  
Date: Tue, 25 Mar 1997 19:27:56 -0600 (CST)  
From: Kevin Pease <hamradio@mm1001.theporch.com>  
To: "Rhett T. George" <rtg@ee.duke.edu>  
Subject: Re: Regens and Superhets  
Message-ID: <Pine.LNX.3.95.970325192443.6512C-1000000@mm1001.theporch.com>

On Tue, 25 Mar 1997, Rhett T. George wrote:

>  
> - Greetings -  
>  
> Terry and Bob have been carrying on a fine discussion of bandpass  
> narrowing, perhaps in response to Carl's question. Yes, ringing  
> accompanies the narrowed passband. In the limit, the single frequency  
> which is passed occupies all of time. That is a long while to wait  
> for the next component of a Morse character.  
>  
> This behavior is known in the physics realm as the Heisenberg  
> Uncertainty Principle. If the energy/frequency is known quite  
> closely, the time of occurrence is uncertain, and vice versa.  
>  
> The Fourier Integral may tell more about this than you ever wanted  
> to know.  
>  
In the intuitive sense what happens is you start amplifying noise at only  
the frequency that you are monitoring so that when there is no signal the

noise is that same amplitude so the signal disappears. There is a minimum practical bandwidth. It would seem that it is that bandwidth where the random noise is 6db less than the signal since 6 db seems to be a good ratio for human decode of a signal. I am sure that the math people could tell us that. Also the CW speed adds bandwidth so that has also to be considered.

Kevin Pease

-----  
Date: Tue, 25 Mar 1997 16:33:48 -1000  
From: Jeffrey Herman <jeffreyh@hawaii.edu>  
To: "Bowman, Jim" <Jim\_Bowman@ATK.COM>  
Subject: Re: CQ glowbug circuits  
Message-ID: <Pine.GS0.3.95q.970325163056.14823B-100000@uhunix3>

On Tue, 25 Mar 1997, Bowman, Jim wrote:

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> believe,  
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> converters,

I nominate Boatanchor Bob Keys. He did a marvelous job getting the ARRL to allow us to reprint QST circuits on here.  
Jeff

-----  
Date: Tue, 25 Mar 1997 22:57:52 -0500 (EST)  
From: TRIODEEL@aol.com  
To: glowbugs@sco.theporch.com  
Subject: Re: Catalog for your reference  
Message-ID: <970325225747\_-868544442@emout20.mail.aol.com>

I have been reading with interest the mail I've been getting as a member of your list.  
I'm not trying to SPAM people, but since you are using tubes, thought you or other recipients might be interested in my company's products.  
Best Regards, Ned Carlson

Triode Electronics, Chicago

Our What We Say Is What You Get policy means that we don't relabel tubes with phony brand names, or put fancy gold lettering and boxes on them, or tell you that little elves in the Black Forest made them in order to charge you 5 or 10 times what they're worth. We guarantee the goods you get are actually the brand and type advertised. Power tubes are tested and matched at typical operating voltages and dissipation using our nifty British military valve checker.

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12AU7. Yugoslav 4.95..Sylvania 12AU7WA/6189 JAN 5.95..

Tungsram ECC82 7.95

Mullard British military 12AU7WA 19.95

12AT7..Yugoslav 5.95 Sylvania/Philips ECG 12AT7WA 7.95

Mullard British military 12AT7WA 19.95

6DJ8 and equivalent (E88CC,E188CC,6922,7308) Russia 6922 7.95

Tesla 6922/E88CC(Slovakia) 7.95

Siemens-WGermany NOS 1962,JAN-NATO military gold pin 6922 24.95.

KT88 Tesla (Slovakia) KT88 copy of British. 79.95 matched pair

Russian 6550C clear bulb-Very nice quality 39.90 match pair

6CA7/EL34 EL34-G Russia thin bulb-like Siemens 19.95 matched pair

6CA7/EL34 Russia fat bulb (Looks like GE ) 24.95/match pair

6CA7/E34L Tesla (Slovak) nice copy of Mullard 24.95/ matched pair

Dynaco ST70/MK4 should use EL34-G or Tesla

Mark II can use all 3 types.

6L6-GC/KT66..Russia 6L6WGC/5881 16.90/mpair

Russia 6L6-GC 11.90/mpair

6L6WGB/5881 Philips ECG/Sylvania 29.95/matched pair

KT66 blue glass Chinese, selected, looks cool! \$39.95/pair

350B Chinese, looks like WE,up to 600V Va, sub KT66 \$59.95/ mpair

6V6-GT Russia 3.95 each

807 Russian 14.95

British ITT 5B/254M same as 807 but 1/4 inch cap, 19.95

6BG6-G Russian Same as 807, but octal base & better price! 5.95

5AR4/GZ34 Russia (new improved type) 8.95

5AR4/GZ34 Chinese 7.95

CV378/GZ37 Mullard mil Large bulb sub for 5AR4, WE422A 17.95 ea

300B Russian, Chinese, Cetron, WE, etc Call for avail and price

Russian Tubes 5U4-G 5.95 6AS7-G 7.95 6BQ5/EL84 3.95

6C33 call for avail 6EU7 9.95 6N7-GT 3.95 6SJ7 3.95 6SL7-GT 3.95

6SN7-GT 5.95 811A call 6267/EF86 call for avail 7189/EL84-M 7.95

7199 8.95 6B4-G Russian 29.95

Other popular tubes Lots more not listed, please call!!

(call for info onstock)

5U4-GB 12.95 6AN8 5.95 6BM8/ECL82 5.95 6C4 4.95 6CA4/EZ81 4.95

6CG7/6FQ7(USA) 14.95 6CW4 8.95 6DL4/EC88 4.95 6FQ7 USA.see 6CG7

6FQ7 9.95 6GK5 USA 5.95 6GW8/ECL86 3.95 6J7 3.95 6SC7 6.95

6V4 3.95 6X4 3.95 12BH7 (yugo) 9.95 12BY7 14.95

12X4 3.95 5751 see below 5879 7.95 5965 5.95 7247/12DW7 14.95

TUBE SALE Prices and quantities on following items are limited  
to stock ON HAND, If you need more info please ask first.

Guaranteed unused NOS

6AK5/EF95/5654 1.50 6AK6 75¢ 6AL5/5726 95¢ 6AT8 1.50 6AU8 1.00

6AU5-GT 1.50 6AX4-GTA 1.50 6BK5 50¢ 6BN6/6KS6 1.95

6CB6 1.50 6DG6 1.95 6DT6A 50¢ 6EH7/EF183 75¢ 6EW6 1.50

6GK5(Japan) 1.50 6GK5 GE 2.95 6GF7 2.95 6GS7 50¢ 6HA5/EC900 95¢

6JB5/6JC5 95¢ 12AL5 25¢ 12EK6/12DZ6 50¢ 403B/5591 1.95 407A 1.00

408A 1.00 5670/2C51W 1.95 5920/E90CC 1.50 6689/E83F 3.95

Limited Quantities on following hard to find items:

National type '50, 1994 date code. Looks like a 300B! \$125 ea

Philips ECG Tubes 12FQ7 (Italy) 6.95 6GH8 (USA) 4.95

6F8-G A large bulb 6SN7-G, one of the grid leads on cap. 4.95

6V6-GT, NOS early 60's mfr USA, various mfr, 14.95 each

Good used 6V6-GT USA 9.95 ea

6V6-GTA RCA & Sylvania 19.95

6V6-GT/CV511 made by STC (UK equiv of WE) British mil 17.95 each

6SN7-GT/GTA/GTB, various mfr new old stock USA mfr, 9.95 ea

12SN7-GT and 12SL7-GT, a 6SN7 or 6SL7 but 12V fil, NOS USA, 3.95

DG7-32 Marantz 10B scope tube, Mullard (england ) 69.95

DG7-32 Tungsram (Hungary) \$49.95

5751 Sylvania gold pin, NATO military grade NOS 24.95

5751 Philips ECG, (USA) 8.95

Computer grade capacitors! 1900 uF 250V 4.95 580 uF 400V 4.95

880 uF 350V 7.95 1100 uF 450V 9.95 (Clamps-1.50)

Sprague 800 volt 715P polypropylene cap, .0033 or .0047 uF .29 ea

Axial lead Polypropylenes, your choice .001-1500V, .0015 1KV,

.0047 1600V, .0068 1KV .39 each

Roderstien .037-400V axial polypropylene .29 each

Sprague 410P Axial .15 uF 300V .29 ea

F-Dyne .022-400V axial .29 each

ALPS 50K stereo combo Volume/Balance control, large case, detents 9.95

Noble 250K volume control cast case, cond plastic 19.95

ALPS 24 pos 4 deck switches with

PC boards for stepped atten, 24.95 ea

Terminal strips, Phenolic Bag of 30 pcs 1.95

Soldering Irons, big ones for thick metal.

Wood handle.60W 4.95,100W 6.95

Transformer, #23V17 (Thordarsen) 117V 300 ma , open frame 9.95

Transformer, Triad F-90X, multiple taps 10V to 40V, 4.95 ea

Tube tester xfmr, multiple fil taps 1.5 to 117V, B+,

rectifier windings 9.95

Choke, Stancor #C2344 1.5H 10ma, 1500V hipot 1.95 ea

Sockets, Octal (for GZ34, EL34, 6550, 6L6, etc) British Micanol

(brown plastic) McMurdo phosphor bronze contacts,

J1 1/2" mnt centers 2.95 each

9 pin ceramic chassis mount w/ shield 1.95 each

9 pin chassis mount McMurdo socket, similar to above 1.95

9 pin ceramic chassis mount with shield, fits 12AX7/6DJ8, 1.95

Have Tube Sockets and Top Caps of all sorts. If you don't see it please ask.

Dusty Files Part 2, Favorite Amp Plans, 25 tube power amplifiers that may be constructed from generally available, reasonably priced parts.

Includes handy Resistance Coupled Amplifier charts. 9.95

#### Other Regular Stock Useful Items

Computer grade capacitors, clamp mount 1 3/8 dia. Made in England

100 + 100 uF 500V 13.95      50+50 at 500V 9.95

40-20-20-20 uF at 500V Clamps add 1.50

Axial Electrolytic Capacitors Other lower voltages also stocked

500V: 22 uF 2.95    47 uF 3.95

450V: 10uF 1.25    22 uF 1.79    47 uF 2.95    80 uF 3.50    100 uF 3.95

300V: 200 uF 4.95

160V 10 uF .39    22 uF .49    33 uF .49    47 uF .59    100 uF .99

50V 10 uF .19    22 uF .19    33 uF .19    47 uF .25

100 uF .29    220 uF .39    330 uF .49    1000 uF .95    1500 uF 1.50

2200 uF 1.95    3300 uF 2.50

25V 10 uF .19    22 uF .19    47 uF .19    100 uF .19    4700 uF 1.95

Note: When replacing electrolytics it is normally OK to replace with higher voltage, and/or with a value -20 % to +100% (or higher) than original.

5 watt Zener diodes, 47, 82, 100, 110, 120, 130, 140, 150 volts, 1.95 each

Diodes, 1N4007 1A 1000V, pack of 5, .95    2.5A 1000V pack of five 1.95

High Voltage Diode, 500 ma 12,000 volt PRV rating (wow!) 5.95 each

Neutrik XLR connectors gold plate contacts, black case, specify male or female, cord or chassis mounting. 4.95 each

Punch Kits, will punch all chassis above (up to 18 ga steel), covers all popular tube socket holes, 5/8, 3/4, 7/8, 1, 1 -1/8, 49.95 each

Lettering kits, dry transfer, for marking chassis. Specify Black or White.

Choose Audio Words (#AUD-1) Terminal Letters and Numbers (#TC-13)

or Dial Marking (for volume/selectors, etc) (#DM-13) \$3.29 per large pack.

FM Radio Alignment Tool Kit, has most popular types. #AT-1 1.95

Metal Film resistor kit, 100 pc, 20+ popular values 1/2 watt 1% 6.95

Power Resistor Kit, 100 pc, 20+ pop values 3 to 7W metal oxide 14.95

Tube Manuals, reprints, RCA (1959) 13.95, GE (1972) 12.95, WE 17.95

RCA Jacks, gold plated with teflon insulation and teflon washer to insulate from chassis. Same as Royce-style we used to sell. Red or Black 2.95 EACH

Insulated Gold Binding Post, 15A capacity. Red or Black. 2.95 EACH



Metal Gold Binding Post, with color-coded insulating washer. 15A capacity  
Specify Red or Black. 2.95 EACH  
Banana Plug, gold, takes up to 10AWG cable. Red or Black. 2.95 EACH  
Spade Lug, gold, takes up to 10AWG cable. Red or Black. 2.95 EACH  
Various esoteric audio wire & connectors, pls call for details  
Mystery Polystyrene Capacitors Hard to find high voltage values.  
These types rated 630V, 1% tolerance: 10 pf, 12 pf, 15 pf, 18 pf, 22 pf,  
27 pf, 33 pf, 47 pf, 56 pf, 68 pf, 82 pf 1-9 pcs 1.95 each,  
10-24 pcs 1.59 each, 25 + pcs 1.35 each  
Rated 630V, 1% tol: 100 pf, 120 pf, 150 pf, 180 pf, 200 pf, 220 pf, 270 pf,  
330 pf, 390 pf, 1-9 pcs .99 each, 10-24 pcs .79 each, 25 + pcs .69 each  
Rated 630V, 5% tol: 470 pf, 560 pf, 620 pf, 680 pf, 750 pf, 820 pf  
1-9 pcs .69 each, 10-24 pcs .55 each, 25 + pcs .49 each  
Rated 630V, 5% tolerance: 1000 pf, 2200 pf, 3300 pf, 4700 pf  
1-9 pcs .49 each 10-24 pcs .39 each, 25+ pcs .35 each  
Mystery Polypropylene Capacitors. All 10% tolerance.  
Quantity discounts as follows:  
10 to 24 pcs, 20% off, 25 or more 33% off. Over 100:call for quote.  
Rated 630V: .01 uF .45, .022 uF .45, .033 uF .45, .047 uF .45, .1 uF .60  
.15 uF .75 .22 uF .75, .47 uf .95 400V: .15 uF .50 .22 uF .60, .47 uF  
.75,

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30 days if with original packing and unused. Most Tubes

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defective

are returnable for exchange only.

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This normally waived if you apply credit towards another purchase.

Please phone in advance if you wish to pick up parts at the office in order

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No elves were harmed in the production of this catalog.

-----  
Date: Tue, 25 Mar 1997 23:05:23 -0700 (MST)  
From: Chris Trask <ctrask@primenet.com>  
To: Multiple recipients of list <glowbugs@sco.theporch.com>  
Subject: Synchronous Demodulation  
Message-ID: <Pine.BSI.3.95.970325230341.2930A-1000000@usr06.primenet.com>

I was just paging through an interesting book that I found a few months ago, "Recent Advances in Radio Receivers," (Cambridge, 1949) by L.A. Moxon, and came across an interesting entry that is directly related to our ongoing discussion on synchronous demodulation techniques. It appears that the method referred to earlier as "synchrophase demodulation" was previously known as "exalted carrier reception," and was used to reduce the effects of selective fading, which we presently call multi-path.

Reference is made to a paper that appeared in the September 1945 issue of Proceedings of the IRE, "Exalted Carrier Reception," by Murray G. Crosby. I'll get a copy of this later this week. The block diagram shown is much the same as we have seen lately, except that there is an AFC path that controls the first LO in the receiver, rather than a PLL that recovers the carrier. Interesting. A companion schematic shows a half-lattice crystal filter and what appears to be a ratio detector for the AFC recovery, and a connection that goes to the control grid of a "magic eye" tuning indicator. Remember those?

An additional reference is made to the August 1941 issue of Wireless World (L.A. Moxon, "Minimizing Selective Fading") from which most of this information is derived. ASU does not have Wireless World back that far, and the UofA does not have it at all. Does anyone out there have access to a library that has this publication for the 1930's to 1940's? There are additional articles that I'm interested in from that era.

I gotta go.

Regards,

Chris

,-----.

[illegible]

## Circuit Design for the RF Impaired

Chris Trask / N7ZWY  
Principal Engineer  
ATG Design Services  
P.O. Box 25240  
Tempe, Arizona 85285-5240

Email: [ctrask@primenet.com](mailto:ctrask@primenet.com)

Graphics by Loek Frederiks

Date: Wed, 26 Mar 1997 07:32:10 +0000  
From: "Brian Carling (G3XLQ/AF4K)" <bry@mnsinc.com>  
To: Jim\_Bowman@ATK.COM, glowbugs@sco.theporch.com  
Subject: Re: CQ glowbug circuits  
Message-ID: <199703261230.HAA00951@news2.mnsinc.com>

Hello Jim and the group.

I would love to see those rigs, converters etc.

I will be glad to post the schematics on my web page - AND scan them if we need that.

The hard part is - HOW do we get in touch with whomever owns the rights to those old articles now and get their permission?

We got it OK for ARRL things, but CQ is a different story.

Can someone suggest a way to enlighten ourselves about contacting the publisher?

On 26 Mar 97 at 0:39, Bowman, Jim spoke about CQ glowbug circuits and said:

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> guys. I still have the little rig I built back then, sitting on the  
> shelf. I ran a PE103 dynamotor on it at about 600V and the thing  
> would blow and go! I since got rid of the dynamotor. I could draw  
> about a 3/4 inch arc of rf off my mobile antenna above the "bug  
> catcher" loading coil. I could also take a 4 foot flourescent bulb,  
> hold it in my hand and walk all the way around the car and keep the  
> bulb lit! This neat circuit is about as close as you can get to  
> getting something for nothing! The rub may be finding the carbon mic  
> input transformer they used a lot back then. Could be eliminated  
> with another tube.

>

> Anyway, forgive my reminiscing. The book has lots of little 6AQ5  
> class "peanut whistle" rigs as we called them, and the like. If we  
> could get permission, I would be happy to share this stuff. Maybe  
> someone could post schematics on their web page or something. My  
> internet activity is here at work, so I just can't do much. Any  
> takers?

>

> JIm W7HPK  
> Jim\_Bowman@ATK.COM

>

\*\*\*\*\*  
\*\*\* 73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA \*  
\*\* E-mail to: bry@mnsinc.com \*  
\*\*\* See the great ham radio resources at: \*  
\*\* <http://www.mnsinc.com/bry/> \*  
\*\*\*\*\*

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Date: Wed, 26 Mar 1997 12:10:40 -0600  
From: Conard Murray <ws4s@InfoAve.Net>  
To: glowbugs@sco.theporch.com  
Subject: News of move/survey  
Message-ID: <2.2.32.19970326181040.00b06be4@infoave.net>

Hi all,

Sorry to have gone so long with out an update, but everything is going well with the new free glowbugs listserver. We have a few users already logged on testing the system and it is working quite well. We should be ready for everyone on Friday.

If you want to be included as a user without going through the subscription process just drop me a note with your name and e-mail address in lower case.

Thanks,

Conard WS4S

```
.....  
. Conard Murray WS4S Glowbugs listowner .  
. 217 Dyer Avenue ws4s@infoave.net .  
. Cookeville, TN 38501 615-526-4093 .  
. <>< Wise men still seek Him ><> .  
. Member Arizona ScQRPions QRP-L # 993 .  
. NAVMARCORPS MARS NNNOUTN .  
.....
```

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Date: Wed, 26 Mar 1997 15:38:07 -0600

From: Paul Bocci-CPB007 <Paul\_Bocci-CPB007@email.mot.com>

To: glowbugs@theporch.com

Subject: HVAC control Transformers

Message-ID: <"Macintosh \*/PRMD=MOT/ADMD=MOT/C=US/"@MHS>

Howdy Folks,

I have recently come into about a dozen HVAC control transformers. These appear to be tapped autotransformers with an 11 position rotary swiich attached to select the tap. I know nothing of HVAC so have no idea what their normal operating conditions may be. My first guess was that they might be useful to all the regen builders out there so I attempted to measure inductance. Using a series resistor and the AC line, I came up with about 5 Henries, probably too low to be of use.

In any case, if anyone can think of a good use for these, please share it.

If anyone can put one to use, they're available for the cost of shipping them to you. (figure about a pound apiece from 60172)

73 es ZUT

Paul, K9NO

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End of GLOWBUGS Digest 487

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